

WEST Search History

DATE: Friday, March 03, 2006

| Hide? | Set Name | Query | Hit Count |
|---|-----------------|-------------------------|------------------|
| <i>DB=USPT; THES=ASSIGNEE; PLUR=YES; OP=ADJ</i> | | | |
| <input type="checkbox"/> | L14 | L13 and Pseudotype | 10 |
| <input type="checkbox"/> | L13 | L12 and inhibitor | 213 |
| <input type="checkbox"/> | L12 | L11 and macrophage | 242 |
| <input type="checkbox"/> | L11 | L10 | 289 |
| <i>DB=PGPB,USPT,EPAB,JPAB,DWPI; THES=ASSIGNEE; PLUR=YES; OP=ADJ</i> | | | |
| <input type="checkbox"/> | L10 | L9 and fusion | 1245 |
| <input type="checkbox"/> | L9 | L2 and Screening | 1515 |
| <input type="checkbox"/> | L8 | L7 and pseudotype | 16 |
| <input type="checkbox"/> | L7 | L6 and inhibitor | 98 |
| <input type="checkbox"/> | L6 | L5 and inhibitor | 98 |
| <input type="checkbox"/> | L5 | L4 and fusion | 114 |
| <input type="checkbox"/> | L4 | Macrophage and L1 | 128 |
| <input type="checkbox"/> | L3 | "HIV macraphage tropic" | 0 |
| <input type="checkbox"/> | L2 | CCR5 | 2721 |
| <input type="checkbox"/> | L1 | "CC CKR5" | 137 |

END OF SEARCH HISTORY

Hit List

[First Clear](#) [Generate Collection](#) [Print](#) [Fwd Refs](#) [Bkwd Refs](#) [Generate OACS](#)

Search Results - Record(s) 1 through 10 of 16 returned.

☐ 1. Document ID: US 20060003319 A1

Using default format because multiple data bases are involved.

L8: Entry 1 of 16

File: PGPB

Jan 5, 2006

PGPUB-DOCUMENT-NUMBER: 20060003319

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060003319 A1

TITLE: Compositions and methods for determining resistance to inhibitors of virus entry using recombinant virus assays

PUBLICATION-DATE: January 5, 2006

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|--------------------------|---------------|-------|---------|
| Petropoulos; Christos J. | Half Moon Bay | CA | US |

US-CL-CURRENT: 435/5

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMC | Draw Desc | Ima |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|-----------|-----|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|-----------|-----|

☐ 2. Document ID: US 20050214743 A1

L8: Entry 2 of 16

File: PGPB

Sep 29, 2005

PGPUB-DOCUMENT-NUMBER: 20050214743

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050214743 A1

TITLE: Compositions and methods for evaluating viral receptor/co-receptor usage and inhibitors of virus entry using recombinant virus assays

PUBLICATION-DATE: September 29, 2005

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|--------------------------|---------------|-------|---------|
| Richman, Douglas | La Jolla | CA | US |
| Wrin, Mary T. | Fremont | CA | US |
| Little, Susan | San Diego | CA | US |
| Petropoulos, Christos J. | Half Moon Bay | CA | US |
| Parkin, Neil T. | Belmont | CA | US |
| Whitcomb, Jeannette | San Mateo | CA | US |
| Huang, Wei | Foster City | CA | US |

US-CL-CURRENT: 435/5; 435/456

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | RMK | Draw Desc | Ima |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|-----------|-----|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|-----------|-----|

☐ 3. Document ID: US 20040110125 A1

L8: Entry 3 of 16

File: PGPB

Jun 10, 2004

PGPUB-DOCUMENT-NUMBER: 20040110125

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040110125 A1

TITLE: Compositions and methods for evaluating viral receptor/co-receptor usage and inhibitors of virus entry using recombinant virus assays

PUBLICATION-DATE: June 10, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|--------------------------|---------------|-------|---------|
| Petropoulos, Christos J. | Half Moon Bay | CA | US |
| Parkin, Neil T. | Belmont | CA | US |
| Whitcomb, Jeannette | San Mateo | CA | US |
| Huang, Wei | Foster City | CA | US |

US-CL-CURRENT: 435/5; 435/6

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | RMK | Draw Desc | Ima |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|-----------|-----|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|-----------|-----|

☐ 4. Document ID: US 20040086528 A1

L8: Entry 4 of 16

File: PGPB

May 6, 2004

PGPUB-DOCUMENT-NUMBER: 20040086528

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040086528 A1

TITLE: Uses of a chemokine receptor for inhibiting HIV-1 infection

PUBLICATION-DATE: May 6, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|---------------------|--------------|-------|---------|
| Allaway, Graham P. | Mohegan Lake | NY | US |
| Dragic, Tatjana | Hartsdale | NY | US |
| Litwin, Virginia M. | Fayetteville | NY | US |
| Maddon, Paul J. | Elmsford | NY | US |
| Moore, John P. | New York | NY | US |
| Trkola, Alexandra | New York | NY | US |

US-CL-CURRENT: 424/208.1; 424/130.1, 424/186.1, 424/204.1, 435/6, 435/91.1, 514/12

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | RMK | Draw Desc | Ima |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|-----------|-----|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|-----------|-----|

☐ 5. Document ID: US 20030096221 A1

L8: Entry 5 of 16

File: PGPB

May 22, 2003

PGPUB-DOCUMENT-NUMBER: 20030096221

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030096221 A1

TITLE: Methods of identifying g-couple receptors associated with macrophage-thophilic hiv,
and diagnostic and therapeutic uses thereof

PUBLICATION-DATE: May 22, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|----------------------|-----------|-------|---------|
| Littman, Dan R. | New York | NY | US |
| Deng, Hongkui | Worcester | MA | US |
| Ellmeier, Wilfried | New York | NY | US |
| Landau, Nathaniel R. | New York | NY | US |
| Liu, Rong | New Yor | NY | US |

US-CL-CURRENT: 435/5; 435/325, 435/7.1, 514/12, 800/18

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | RMK | Draw Desc | Ima |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|-----------|-----|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|-----------|-----|

☐ 6. Document ID: US 20020182592 A1

L8: Entry 6 of 16

File: PGPB

Dec 5, 2002

PGPUB-DOCUMENT-NUMBER: 20020182592

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020182592 A1

TITLE: Compositions and methods for evaluating viral receptor/co-receptor usage and
inhibitors of virus entry using recombinant virus assays

PUBLICATION-DATE: December 5, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|--------------------------|---------------|-------|---------|
| Petropoulos, Christos J. | Half Moon Bay | CA | US |
| Parkin, Neil T. | Belmont | CA | US |
| Whitcomb, Jeannette M. | San Mateo | CA | US |
| Huang, Wei | Foster City | CA | US |

US-CL-CURRENT: 435/5; 435/320.1, 435/325, 435/6, 435/7.21, 536/23.72

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | RMK | Draw Desc | Ima |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|-----------|-----|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|-----------|-----|

☐ 7. Document ID: US 20020076694 A1

L8: Entry 7 of 16

File: PGPB

Jun 20, 2002

PGPUB-DOCUMENT-NUMBER: 20020076694
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020076694 A1

TITLE: G-coupled receptors associated with retroviral entry into cells, and therapeutic uses thereof

PUBLICATION-DATE: June 20, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|------------------------|------------|-------|---------|
| Littman, Dan R. | New York | NY | US |
| Deng, Hongkui | Shrewsbury | MA | US |
| Unutmaz, Derya | Nashville | TN | US |
| Kewalramani, Vineet N. | Rockford | IL | US |

US-CL-CURRENT: 435/5; 424/142.1, 424/207.1, 424/208.1, 435/235.1, 435/239, 435/3, 435/325, 435/363, 435/366, 435/4, 435/6, 435/7.1, 435/7.2, 435/7.21, 435/8, 530/388.15, 536/23.5

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | EMC | Draw Desc | Ima |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|-----------|-----|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|-----------|-----|

☐ 8. Document ID: US 6696244 B2

L8: Entry 8 of 16

File: USPT

Feb 24, 2004

US-PAT-NO: 6696244
DOCUMENT-IDENTIFIER: US 6696244 B2

TITLE: G-coupled receptors associated with retroviral entry into cells, and therapeutic uses thereof

DATE-ISSUED: February 24, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|------------------------|------------|-------|----------|---------|
| Littman; Dan R. | New York | NY | | |
| Deng; Hongkui | Shrewsbury | MA | | |
| Unutmaz; Derya | Nashville | TN | | |
| Kewalramani; Vineet N. | Rockford | IL | | |

US-CL-CURRENT: 435/5; 435/3, 435/4, 435/7.1, 435/7.2, 435/7.21, 435/8

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | EMC | Draw Desc | Ima |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|-----------|-----|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|-----------|-----|

☐ 9. Document ID: US 6528308 B1

L8: Entry 9 of 16

File: USPT

Mar 4, 2003

US-PAT-NO: 6528308
DOCUMENT-IDENTIFIER: US 6528308 B1

TITLE: Suppressor of HIV replication and transcription

DATE-ISSUED: March 4, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-----------------------|--------|-------|----------|---------|
| Bolognesi; Dani P. | Durham | NC | | |
| Greenberg; Michael L. | Durham | NC | | |
| Lacey; Simon F. | Azusa | CA | | |
| Tomaras; Georgia D. | Durham | NC | | |
| Weinhold; Kent J. | Durham | NC | | |

US-CL-CURRENT: 435/372.3

| | | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|-----------|-----|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | RMK | Draw Desc | Ima |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|-----------|-----|

☐ 10. Document ID: US 6344545 B1

L8: Entry 10 of 16

File: USPT

Feb 5, 2002

US-PAT-NO: 6344545

DOCUMENT-IDENTIFIER: US 6344545 B1

TITLE: Method for preventing HIV-1 infection of CD4+ cells

DATE-ISSUED: February 5, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---------------------|--------------|-------|----------|---------|
| Allaway; Graham P. | Mohegan Lake | NY | | |
| Litwin; Virginia M. | Fayetteville | NY | | |
| Maddon; Paul J. | Elmsford | NY | | |
| Olson; William C. | Ossining | NY | | |

US-CL-CURRENT: 530/388.22; 424/144.1, 530/388.75, 530/389.6

| | | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|-----------|-----|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | RMK | Draw Desc | Ima |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|-----------|-----|

Clear

Generate Collection

Print

Fwd Refs

Bkwd Refs

Generate OACS

Terms

Documents

L7 and pseudotype

16

Display Format: [Previous Page](#)[Next Page](#)[Go to Doc#](#)

Hit List

Search Results - Record(s) 11 through 16 of 16 returned.

☐ 11. Document ID: US 6258527 B1

Using default format because multiple data bases are involved.

L8: Entry 11 of 16

File: USPT

Jul 10, 2001

US-PAT-NO: 6258527

DOCUMENT-IDENTIFIER: US 6258527 B1

TITLE: Methods of identifying g-coupled receptors associated with macrophage-trophic HIV, and diagnostic and therapeutic uses thereof

DATE-ISSUED: July 10, 2001

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|----------------------|-----------|-------|----------|---------|
| Littman; Dan R. | New York | NY | | |
| Deng; Hongkui | Worcester | MA | | |
| Ellmeier; Wilfried | New York | NY | | |
| Landau; Nathaniel R. | New York | NY | | |
| Liu; Rong | New York | NY | | |

US-CL-CURRENT: 435/5; 435/372.3, 435/6, 435/7.2, 435/7.24

| | | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|-----------|-----|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | RMK | Draw Desc | Ima |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|-----------|-----|

☐ 12. Document ID: US 6251582 B1

L8: Entry 12 of 16

File: USPT

Jun 26, 2001

US-PAT-NO: 6251582

DOCUMENT-IDENTIFIER: US 6251582 B1

TITLE: Alternative G-coupled receptors associated with retroviral entry into cells, methods of identifying the same, and diagnostic and therapeutic uses thereof

DATE-ISSUED: June 26, 2001

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|------------------------|------------|-------|----------|---------|
| Littman; Dan R. | New York | NY | | |
| Deng; Hongkui | Shrewsbury | MA | | |
| Unutmaz; Derya | New York | NY | | |
| Kewalramani; Vineet N. | Rockford | IL | | |

US-CL-CURRENT: 435/5; 435/3, 435/4, 435/7.1, 435/7.2, 435/7.21, 435/8

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | FIGS | Draw Desc | Ima |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|-----------|-----|
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|-----------|-----|

☐ 13. Document ID: US 6107019 A

L8: Entry 13 of 16

File: USPT

Aug 22, 2000

US-PAT-NO: 6107019

DOCUMENT-IDENTIFIER: US 6107019 A

TITLE: Method for preventing HIV-1 infection of CD4.sup.+ cells

DATE-ISSUED: August 22, 2000

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---------------------|--------------|-------|----------|---------|
| Allaway; Graham P. | Mohegan Lake | NY | | |
| Litwin; Virginia M. | Fayetteville | NY | | |
| Maddon; Paul J. | Elmsford | NY | | |
| Olson; William C. | Ossining | NY | | |

US-CL-CURRENT: 435/5; 435/7.2, 435/7.21, 435/7.24, 435/7.92, 435/7.93, 436/537, 436/542

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | FIGS | Draw Desc | Ima |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|-----------|-----|
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|-----------|-----|

☐ 14. Document ID: US 6057102 A

L8: Entry 14 of 16

File: USPT

May 2, 2000

US-PAT-NO: 6057102

DOCUMENT-IDENTIFIER: US 6057102 A

TITLE: HIV coreceptor mutants

DATE-ISSUED: May 2, 2000

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|----------------------|-----------|-------|----------|---------|
| Landau; Nathaniel R. | New York | NY | | |
| Koup; Richard A. | Southlake | TX | | |
| Liu; Rong | New York | NY | | |
| Paxton; William | Amsterdam | | | NL |

US-CL-CURRENT: 435/6; 435/5, 435/91.2, 435/91.21, 436/501, 436/504, 536/23.1, 536/23.5

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | FIGS | Draw Desc | Ima |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|-----------|-----|
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|-----------|-----|

☐ 15. Document ID: US 5939538 A

L8: Entry 15 of 16

File: USPT

Aug 17, 1999

US-PAT-NO: 5939538

DOCUMENT-IDENTIFIER: US 5939538 A

TITLE: Methods and compositions for inhibiting HIV infection of cells by cleaving HIV co-receptor RNA

DATE-ISSUED: August 17, 1999

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---------------------|-----------|-------|----------|---------|
| Leavitt; Markley C. | La Jolla | CA | | |
| Tritz; Richard | San Diego | CA | | |
| Feng; Yu | San Diego | CA | | |
| Barber; Jack | San Diego | CA | | |
| Yu; Mang | San Diego | CA | | |

US-CL-CURRENT: 536/23.1

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | FIGS | Draw Desc | Ima |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|-----------|-----|
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|-----------|-----|

☐ 16. Document ID: US 5939320 A

L8: Entry 16 of 16

File: USPT

Aug 17, 1999

US-PAT-NO: 5939320

DOCUMENT-IDENTIFIER: US 5939320 A

TITLE: G-coupled receptors associated with macrophage-trophic HIV, and diagnostic and therapeutic uses thereof

DATE-ISSUED: August 17, 1999

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|----------------------|----------|-------|----------|---------|
| Littman; Dan R. | New York | NY | | |
| Deng; Hongkui | New York | NY | | |
| Ellmeier; Wilfried | New York | NY | | |
| Landau; Nathaniel R. | New York | NY | | |
| Liu; Rong | New York | NY | | |

US-CL-CURRENT: 435/325; 435/320.1, 435/357, 435/366, 435/367, 435/369

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | FIGS | Draw Desc | Ima |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|-----------|-----|
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|-----------|-----|

Clear

Generate Collection

Print

Fwd Refs

Bkwd Refs

Generate OACS

Terms

Documents

L7 and pseudotype

16

Hit List

[First Clear](#)[Generate Collection](#)[Print](#)[Fwd Refs](#)[Bkwd Refs](#)[Generate OACS](#)

Search Results - Record(s) 1 through 10 of 10 returned.

☐ 1. Document ID: US 6908734 B2

L14: Entry 1 of 10

File: USPT

Jun 21, 2005

US-PAT-NO: 6908734

DOCUMENT-IDENTIFIER: US 6908734 B2

TITLE: Sulfated CCR5 peptides for HIV-1 infection

DATE-ISSUED: June 21, 2005

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-------------------|-----------|-------|----------|---------|
| Dragic; Tatjana | Scarsdale | NY | | |
| Olson; William C. | Ossining | NY | | |

US-CL-CURRENT: 435/5; 424/208.1, 435/325, 435/339.1, 435/69.1, 530/388.35

| | | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|-----------|-----|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | EMC | Draw Desc | Ima |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|-----------|-----|

☐ 2. Document ID: US 6696244 B2

L14: Entry 2 of 10

File: USPT

Feb 24, 2004

US-PAT-NO: 6696244

DOCUMENT-IDENTIFIER: US 6696244 B2

TITLE: G-coupled receptors associated with retroviral entry into cells, and therapeutic uses thereof

DATE-ISSUED: February 24, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|------------------------|------------|-------|----------|---------|
| Littman; Dan R. | New York | NY | | |
| Deng; Hongkui | Shrewsbury | MA | | |
| Unutmaz; Derya | Nashville | TN | | |
| Kewalramani; Vineet N. | Rockford | IL | | |

US-CL-CURRENT: 435/5; 435/3, 435/4, 435/7.1, 435/7.2, 435/7.21, 435/8

| | | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|-----------|-----|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | EMC | Draw Desc | Ima |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|-----------|-----|

☐ 3. Document ID: US 6548636 B2

L14: Entry 3 of 10

File: USPT

Apr 15, 2003

US-PAT-NO: 6548636

DOCUMENT-IDENTIFIER: US 6548636 B2

TITLE: Sulfated CCR5 peptides for HIV-1 infection

DATE-ISSUED: April 15, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-------------------|-----------|-------|----------|---------|
| Dragic; Tatjana | Scarsdale | NY | | |
| Olson; William C. | Ossining | NY | | |

US-CL-CURRENT: 530/328; 530/324, 530/325, 530/326, 530/327

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | RMK | Draw Desc | Ima |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|-----------|-----|
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|-----------|-----|

☐ 4. Document ID: US 6528308 B1

L14: Entry 4 of 10

File: USPT

Mar 4, 2003

US-PAT-NO: 6528308

DOCUMENT-IDENTIFIER: US 6528308 B1

TITLE: Suppressor of HIV replication and transcription

DATE-ISSUED: March 4, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-----------------------|--------|-------|----------|---------|
| Bolognesi; Dani P. | Durham | NC | | |
| Greenberg; Michael L. | Durham | NC | | |
| Lacey; Simon F. | Azusa | CA | | |
| Tomaras; Georgia D. | Durham | NC | | |
| Weinhold; Kent J. | Durham | NC | | |

US-CL-CURRENT: 435/372.3

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | RMK | Draw Desc | Ima |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|-----------|-----|
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|-----------|-----|

☐ 5. Document ID: US 6475718 B2

L14: Entry 5 of 10

File: USPT

Nov 5, 2002

US-PAT-NO: 6475718

DOCUMENT-IDENTIFIER: US 6475718 B2

TITLE: Methods and compositions for modulating the interaction between the APJ receptor and the HIV virus

DATE-ISSUED: November 5, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-------------------------|---------------|-------|----------|---------|
| Doms; Robert W. | Berwyn | PA | | |
| Faulds; Daryl | Mill Valley | CA | | |
| Hesselgesser; Joseph E. | San Francisco | CA | | |
| Horuk; Richard | Belmont | CA | | |
| Mitrovic; Branislava | Walnut Creek | CA | | |
| Zhou; Yiqing | El Sobrante | CA | | |

US-CL-CURRENT: [435/5](#); [435/325](#), [435/352](#), [435/353](#), [435/354](#), [435/358](#), [435/361](#), [435/366](#),
[435/372](#), [435/372.3](#), [435/4](#)

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | FIGS | Draw Desc | Imgs |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|-----------|------|
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|-----------|------|

☐ 6. Document ID: US 6344545 B1

L14: Entry 6 of 10

File: USPT

Feb 5, 2002

US-PAT-NO: 6344545

DOCUMENT-IDENTIFIER: US 6344545 B1

TITLE: Method for preventing HIV-1 infection of CD4+ cells

DATE-ISSUED: February 5, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---------------------|--------------|-------|----------|---------|
| Allaway; Graham P. | Mohegan Lake | NY | | |
| Litwin; Virginia M. | Fayetteville | NY | | |
| Maddon; Paul J. | Elmsford | NY | | |
| Olson; William C. | Ossining | NY | | |

US-CL-CURRENT: [530/388.22](#); [424/144.1](#), [530/388.75](#), [530/389.6](#)

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | FIGS | Draw Desc | Imgs |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|-----------|------|
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|-----------|------|

☐ 7. Document ID: US 6258527 B1

L14: Entry 7 of 10

File: USPT

Jul 10, 2001

US-PAT-NO: 6258527

DOCUMENT-IDENTIFIER: US 6258527 B1

TITLE: Methods of identifying g-coupled receptors associated with macrophage-trophic HIV, and diagnostic and therapeutic uses thereof

DATE-ISSUED: July 10, 2001

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-----------------|-----------|-------|----------|---------|
| Littman; Dan R. | New York | NY | | |
| Deng; Hongkui | Worcester | MA | | |

| | | |
|----------------------|----------|----|
| Ellmeier; Wilfried | New York | NY |
| Landau; Nathaniel R. | New York | NY |
| Liu; Rong | New York | NY |

US-CL-CURRENT: [435/5](#); [435/372.3](#), [435/6](#), [435/7.2](#), [435/7.24](#)

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | RMK | Draw Desc | Ima |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|-----------|-----|
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|-----------|-----|

☐ 8. Document ID: US 6251582 B1

L14: Entry 8 of 10

File: USPT

Jun 26, 2001

US-PAT-NO: 6251582

DOCUMENT-IDENTIFIER: US 6251582 B1

TITLE: Alternative G-coupled receptors associated with retroviral entry into cells, methods of identifying the same, and diagnostic and therapeutic uses thereof

DATE-ISSUED: June 26, 2001

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|------------------------|------------|-------|----------|---------|
| Littman; Dan R. | New York | NY | | |
| Deng; Hongkui | Shrewsbury | MA | | |
| Unutmaz; Derya | New York | NY | | |
| Kewalramani; Vineet N. | Rockford | IL | | |

US-CL-CURRENT: [435/5](#); [435/3](#), [435/4](#), [435/7.1](#), [435/7.2](#), [435/7.21](#), [435/8](#)

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | RMK | Draw Desc | Ima |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|-----------|-----|
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|-----------|-----|

☐ 9. Document ID: US 6107019 A

L14: Entry 9 of 10

File: USPT

Aug 22, 2000

US-PAT-NO: 6107019

DOCUMENT-IDENTIFIER: US 6107019 A

TITLE: Method for preventing HIV-1 infection of CD4.sup.+ cells

DATE-ISSUED: August 22, 2000

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---------------------|--------------|-------|----------|---------|
| Allaway; Graham P. | Mohegan Lake | NY | | |
| Litwin; Virginia M. | Fayetteville | NY | | |
| Maddon; Paul J. | Elmsford | NY | | |
| Olson; William C. | Ossining | NY | | |

US-CL-CURRENT: [435/5](#); [435/7.2](#), [435/7.21](#), [435/7.24](#), [435/7.92](#), [435/7.93](#), [436/537](#), [436/542](#)

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | RMK | Draw Desc | Ima |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|-----------|-----|
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|-----------|-----|

☐ 10. Document ID: US 5939538 A

L14: Entry 10 of 10

File: USPT

Aug 17, 1999

US-PAT-NO: 5939538

DOCUMENT-IDENTIFIER: US 5939538 A

TITLE: Methods and compositions for inhibiting HIV infection of cells by cleaving HIV co-receptor RNA

DATE-ISSUED: August 17, 1999

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---------------------|-----------|-------|----------|---------|
| Leavitt; Markley C. | La Jolla | CA | | |
| Tritz; Richard | San Diego | CA | | |
| Feng; Yu | San Diego | CA | | |
| Barber; Jack | San Diego | CA | | |
| Yu; Mang | San Diego | CA | | |

US-CL-CURRENT: 536/23.1

| | | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|-----------|-----|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KIND | Draw Desc | Ima |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|-----------|-----|

Clear

Generate Collection

Print

Fwd Refs

Bkwd Refs

Generate OACS

Terms

Documents

L13 and Pseudotype

10

Display Format: CIT

Change Format

[Previous Page](#)[Next Page](#)[Go to Doc#](#)

Connecting via Winsock to STN

Welcome to STN International! Enter x:

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1648BQL

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

| | | | |
|--------------|----|--------|--|
| NEWS | 1 | | Web Page URLs for STN Seminar Schedule - N. America |
| NEWS | 2 | | "Ask CAS" for self-help around the clock |
| NEWS | 3 | DEC 05 | CASREACT(R) - Over 10 million reactions available |
| NEWS | 4 | DEC 14 | 2006 MeSH terms loaded in MEDLINE/LMEDLINE |
| NEWS | 5 | DEC 14 | 2006 MeSH terms loaded for MEDLINE file segment of TOXCENTER |
| NEWS | 6 | DEC 14 | CA/CAPLUS to be enhanced with updated IPC codes |
| NEWS | 7 | DEC 21 | IPC search and display fields enhanced in CA/CAPLUS with the IPC reform |
| NEWS | 8 | DEC 23 | New IPC8 SEARCH, DISPLAY, and SELECT fields in USPATFULL/ USPAT2 |
| NEWS | 9 | JAN 13 | IPC 8 searching in IFIPAT, IFIUIDB, and IFICDB |
| NEWS | 10 | JAN 13 | New IPC 8 SEARCH, DISPLAY, and SELECT enhancements added to INPADOC |
| NEWS | 11 | JAN 17 | Pre-1988 INPI data added to MARPAT |
| NEWS | 12 | JAN 17 | IPC 8 in the WPI family of databases including WPIFV |
| NEWS | 13 | JAN 30 | Saved answer limit increased |
| NEWS | 14 | JAN 31 | Monthly current-awareness alert (SDI) frequency added to TULSA |
| NEWS | 15 | FEB 21 | STN AnaVist, Version 1.1, lets you share your STN AnaVist visualization results |
| NEWS | 16 | FEB 22 | Status of current WO (PCT) information on STN |
| NEWS | 17 | FEB 22 | The IPC thesaurus added to additional patent databases on STN |
| NEWS | 18 | FEB 22 | Updates in EPFULL; IPC 8 enhancements added |
| NEWS | 19 | FEB 27 | New STN AnaVist pricing effective March 1, 2006 |
| NEWS | 20 | FEB 28 | MEDLINE/LMEDLINE reload improves functionality |
| NEWS | 21 | FEB 28 | TOXCENTER reloaded with enhancements |
| NEWS | 22 | FEB 28 | REGISTRY/ZREGISTRY enhanced with more experimental spectral property data |
| NEWS | 23 | MAR 01 | INSPEC reloaded and enhanced |
| NEWS EXPRESS | | | FEBRUARY 15 CURRENT VERSION FOR WINDOWS IS V8.01a, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005. V8.0 AND V8.01 USERS CAN OBTAIN THE UPGRADE TO V8.01a AT http://download.cas.org/express/v8.0-Discover/ |
| NEWS HOURS | | | STN Operating Hours Plus Help Desk Availability |
| NEWS INTER | | | General Internet Information |
| NEWS LOGIN | | | Welcome Banner and News Items |
| NEWS PHONE | | | Direct Dial and Telecommunication Network Access to STN |
| NEWS WWW | | | CAS World Wide Web Site (general information) |

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer

agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 09:19:31 ON 03 MAR 2006

=> File caplus biosis
COST IN U.S. DOLLARS

| SINCE FILE | TOTAL |
|------------|---------|
| ENTRY | SESSION |
| 0.21 | 0.21 |

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 09:19:46 ON 03 MAR 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'BIOSIS' ENTERED AT 09:19:46 ON 03 MAR 2006
Copyright (c) 2006 The Thomson Corporation

=> "CCR5"
L1 35 "CCR5"

=> "CCR5"
L2 51 "CCR5"

=> "macrophage tropic"
L3 1137 "MACROPHAGE TROPIC"

=> inhibitor
L4 1336883 INHIBITOR

=> HIV
L5 195644 HIV

=> L5 and L3
L6 992 L5 AND L3

=> L6 and L4
L7 97 L6 AND L4

=> L7 and L2
L8 3 L7 AND L2

=> L7 and L1
L9 3 L7 AND L1

=> CCR5
L10 7665 CCR5

=> L10 and L7
L11 42 L10 AND L7

=> D L8 IBIB ABS 1-3

L8 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2001:499783 CAPLUS

DOCUMENT NUMBER: 135:103329

TITLE: Methods of identifying G protein-coupled receptors associated with the uptake of macrophage-trophic HIV, and their use in diagnosis and treatment of AIDS

INVENTOR(S): Littman, Dan R.; Deng, Hongkui; Ellmeier, Wilfried; Landau, Nathaniel R.; Liu, Rong

PATENT ASSIGNEE(S): The Aaron Diamond Aids Research Center, USA; New York University

SOURCE: U.S., 37 pp., Cont.-in-part of U.S. Ser. No. 858,660,

abandoned.
CODEN: USXXAM

DOCUMENT TYPE:
LANGUAGE:
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

Patent
English

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|-------------|
| US 6258527 | B1 | 20010710 | US 1997-861105 | 19970521 |
| US 2003096221 | A1 | 20030522 | US 2000-734221 | 20001211 |
| PRIORITY APPLN. INFO.: | | | US 1996-17157P | P 19960520 |
| | | | US 1996-20043P | P 19960619 |
| | | | US 1997-858660 | B2 19970519 |
| | | | US 1997-861105 | A1 19970521 |

AB Entry of **HIV-1** into target cells requires cell surface CD4 as well as addnl. host cell cofactors. A cofactor required for infection with virus adapted for growth in transformed T cell lines was recently identified and named fusin. Fusin, however, does not promote entry of **macrophage-tropic** viruses that are believed to be the key pathogenic strains in vivo. It has now been determined that the principal cofactor for entry mediated by the envelope glycoproteins of primary **macrophage-tropic** strains of **HIV-1** is CC-**CKR5**, a receptor for the β -chemokines RANTES, MIP-1 α , and MIP-1 β . The uptake of the virus may be blocked by ligands for the receptor or by preventing the receptor gene expression and in control of the synergism between infection by other viruses and the spread of **HIV** into other cell types. Expts. with viruses pseudotyped with different env glycoproteins showed that uptake was dependent upon the presence of chemokine receptors with different serotypes of the virus showing different receptor requirements. Methods of using chemokine receptor-deficient host cells as expression hosts to identify receptor requirements of clin. isolates of **HIV-1** are described.

REFERENCE COUNT: 57 THERE ARE 57 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1996:433148 CAPLUS

DOCUMENT NUMBER: 125:112550

TITLE: Cell type-specific fusion cofactors determine human immunodeficiency virus type 1 tropism for T-cell lines versus primary macrophages

AUTHOR(S): Alkhatib, Ghalib; Broder, Christopher C.; Berger, Edward A.

CORPORATE SOURCE: Lab. Viral Dis., Natl. Inst. Allergy and Infectious Dis., Bethesda, MD, 20892, USA

SOURCE: Journal of Virology (1996), 70(8), 5487-5494

CODEN: JOVIAM; ISSN: 0022-538X

PUBLISHER: American Society for Microbiology

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Work in this laboratory previously demonstrated that the tropism of different human immunodeficiency type 1 isolates for infection of human CD4+ continuous cell lines (e.g., T-cell lines and HeLa-CD4 transformants) vs. primary macrophages is associated with parallel intrinsic fusogenic specificities of the corresponding envelope glycoproteins (Envs). For T-cell line-tropic isolates, it is well established that the target cell must also contain a human-specific fusion cofactor(s) whose identity is unknown. In this study, we tested the hypothesis that the Env fusion specificities underlying T-cell line vs. macrophage tropism are determined by distinct cell type-specific fusion cofactors. We applied a recombinant vaccinia virus-based reporter gene assay for Env-CD4-mediated cell fusion; the LAV and Ba-L Envs served as prototypes for T-cell line-tropic and **macrophage-tropic** isolates, resp. We examined CD4+ promyelocytic and monocytic cell lines that are infectible by T-cell line-tropic isolates and become susceptible to **macrophage-tropic** strains only after treatment with differentiating agents. We observed parallel changes in fusion specificity: untreated cells supported fusion by the LAV but not the Ba-L Env, whereas cells treated with

differentiating agents acquired fusion competence for Ba-L. These results suggest that in untreated cells, the block to infection by **macrophage-tropic** isolates is at the level of membrane fusion; furthermore, the differential regulation of fusion permissiveness for the two classes of Envs is consistent with the existence of distinct fusion cofactors. To test this notion directly, we conducted expts. with transient cell hybrids formed between CD4-expressing nonhuman cells (murine NIH 3T3) and different human cell types. Hybrids formed with HeLa cells supported fusion by the LAV Env but not by the Ba-L Env, whereas hybrids formed with primary macrophages showed the opposite specificity; hybrids formed between HeLa cells and macrophages supported fusion by both Envs. These results suggest the existence of cell type-specific fusion cofactors selective for each type of Env, rather than fusion **inhibitors** for discordant Env-cell combinations. Finally, analyses based on recombinant protein expression and antibody blocking did not support the proposals by others that the CD44 or CD26 antigens are involved directly in the entry of **macrophage-tropic** isolates.

L8 ANSWER 3 OF 3 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
 ACCESSION NUMBER: 1996:367088 BIOSIS
 DOCUMENT NUMBER: PREV199699089444
 TITLE: CC **CCR5**: A RANTES, MIP-1-alpha, MIP-1-beta receptor as a fusion cofactor for **macrophage-tropic HIV-1**.
 AUTHOR(S): Alkhatib, Ghalib; Combadiere, Christophe; Broder, Christopher C.; Feng, Yu; Kennedy, Paul E.; Murphy, Philip M.; Berger, Edward A. [Reprint author]
 CORPORATE SOURCE: Lab. Viral Diseases, Natl. Inst. Allergy Infectious Diseases, Natl. Inst. Health, Bethesda, MD 20892, USA
 SOURCE: Science (Washington D C), (1996) Vol. 272, No. 5270, pp. 1955-1958.
 CODEN: SCIEAS. ISSN: 0036-8075.
 DOCUMENT TYPE: Article
 LANGUAGE: English
 ENTRY DATE: Entered STN: 14 Aug 1996
 Last Updated on STN: 14 Aug 1996
 AB Human immunodeficiency virus-type 1 (**HIV-1**) entry requires fusion cofactors on the CD4+ target cell. Fusin, a heterotrimeric GTP-binding protein (G protein)-coupled receptor, serves as a cofactor for T cell line-tropic isolates. The chemokines RANTES, MIP-1-alpha, and MIP-1-beta, which suppress infection by **macrophage-tropic** isolates, selectively inhibited cell fusion mediated by the corresponding envelope glycoproteins (Envs). Recombinant CC **CCR5**, a G protein-coupled receptor for these chemokines, rendered CD4-expressing nonhuman cells fusion-competent preferentially with macrophagetropic Envs. CC **CCR5** messenger RNA was detected selectively in cell types susceptible to **macrophage-tropic** isolates. CC **CCR5** is thus a fusion cofactor for **macrophage-tropic HIV-1** strains.

=> D L9 IBIB ABS 1-3

L9 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2001:499783 CAPLUS
 DOCUMENT NUMBER: 135:103329
 TITLE: Methods of identifying G protein-coupled receptors associated with the uptake of macrophage-trophic **HIV**, and their use in diagnosis and treatment of AIDS
 INVENTOR(S): Littman, Dan R.; Deng, Hongkui; Ellmeier, Wilfried; Landau, Nathaniel R.; Liu, Rong
 PATENT ASSIGNEE(S): The Aaron Diamond Aids Research Center, USA; New York University
 SOURCE: U.S., 37 pp., Cont.-in-part of U.S. Ser. No. 858,660, abandoned.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent

LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|-------------|
| US 6258527 | B1 | 20010710 | US 1997-861105 | 19970521 |
| US 2003096221 | A1 | 20030522 | US 2000-734221 | 20001211 |
| PRIORITY APPLN. INFO.: | | | US 1996-17157P | P 19960520 |
| | | | US 1996-20043P | P 19960619 |
| | | | US 1997-858660 | B2 19970519 |
| | | | US 1997-861105 | A1 19970521 |

AB Entry of **HIV-1** into target cells requires cell surface CD4 as well as addnl. host cell cofactors. A cofactor required for infection with virus adapted for growth in transformed T cell lines was recently identified and named fusin. Fusin, however, does not promote entry of **macrophage-tropic** viruses that are believed to be the key pathogenic strains in vivo. It has now been determined that the principal cofactor for entry mediated by the envelope glycoproteins of primary **macrophage-tropic** strains of **HIV-1** is **CC-CKR5**, a receptor for the β -chemokines RANTES, MIP-1 α , and MIP-1 β . The uptake of the virus may be blocked by ligands for the receptor or by preventing the receptor gene expression and in control of the synergism between infection by other viruses and the spread of **HIV** into other cell types. Expts. with viruses pseudotyped with different env glycoproteins showed that uptake was dependent upon the presence of chemokine receptors with different serotypes of the virus showing different receptor requirements. Methods of using chemokine receptor-deficient host cells as expression hosts to identify receptor requirements of clin. isolates of **HIV-1** are described.

REFERENCE COUNT: 57 THERE ARE 57 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1996:433148 CAPLUS

DOCUMENT NUMBER: 125:112550

TITLE: Cell type-specific fusion cofactors determine human immunodeficiency virus type 1 tropism for T-cell lines versus primary macrophages

AUTHOR(S): Alkhatib, Ghalib; Broder, Christopher C.; Berger, Edward A.

CORPORATE SOURCE: Lab. Viral Dis., Natl. Inst. Allergy and Infectious Dis., Bethesda, MD, 20892, USA

SOURCE: Journal of Virology (1996), 70(8), 5487-5494
CODEN: JOVIAM; ISSN: 0022-538X

PUBLISHER: American Society for Microbiology

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Work in this laboratory previously demonstrated that the tropism of different human immunodeficiency type 1 isolates for infection of human CD4+ continuous cell lines (e.g., T-cell lines and HeLa-CD4 transformants) vs. primary macrophages is associated with parallel intrinsic fusogenic specificities of the corresponding envelope glycoproteins (Envs). For T-cell line-tropic isolates, it is well established that the target cell must also contain a human-specific fusion cofactor(s) whose identity is unknown. In this study, we tested the hypothesis that the Env fusion specificities underlying T-cell line vs. macrophage tropism are determined by distinct cell type-specific fusion cofactors. We applied a recombinant vaccinia virus-based reporter gene assay for Env-CD4-mediated cell fusion; the LAV and Ba-L Envs served as prototypes for T-cell line-tropic and **macrophage-tropic** isolates, resp. We examined CD4+ promyelocytic and monocytic cell lines that are infectible by T-cell line-tropic isolates and become susceptible to **macrophage-tropic** strains only after treatment with differentiating agents. We observed parallel changes in fusion specificity: untreated cells supported fusion by the LAV but not the Ba-L Env, whereas cells treated with differentiating agents acquired fusion competence for Ba-L. These results suggest that in untreated cells, the block to infection by

macrophage-tropic isolates is at the level of membrane fusion; furthermore, the differential regulation of fusion permissiveness for the two classes of Envs is consistent with the existence of distinct fusion cofactors. To test this notion directly, we conducted expts. with transient cell hybrids formed between CD4-expressing nonhuman cells (murine NIH 3T3) and different human cell types. Hybrids formed with HeLa cells supported fusion by the LAV Env but not by the Ba-L Env, whereas hybrids formed with primary macrophages showed the opposite specificity; hybrids formed between HeLa cells and macrophages supported fusion by both Envs. These results suggest the existence of cell type-specific fusion cofactors selective for each type of Env, rather than fusion **inhibitors** for discordant Env-cell combinations. Finally, analyses based on recombinant protein expression and antibody blocking did not support the proposals by others that the CD44 or CD26 antigens are involved directly in the entry of **macrophage-tropic** isolates.

L9 ANSWER 3 OF 3 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
 ACCESSION NUMBER: 1996:367088 BIOSIS
 DOCUMENT NUMBER: PREV199699089444
 TITLE: **CC CCR5**: A RANTES, MIP-1-alpha, MIP-1-beta receptor as a fusion cofactor for **macrophage-tropic HIV-1**.
 AUTHOR(S): Alkhatib, Ghalib; Combadiere, Christophe; Broder, Christopher C.; Feng, Yu; Kennedy, Paul E.; Murphy, Philip M.; Berger, Edward A. [Reprint author]
 CORPORATE SOURCE: Lab. Viral Diseases, Natl. Inst. Allergy Infectious Diseases, Natl. Inst. Health, Bethesda, MD 20892, USA
 SOURCE: Science (Washington D C), (1996) Vol. 272, No. 5270, pp. 1955-1958.
 CODEN: SCIEAS. ISSN: 0036-8075.
 DOCUMENT TYPE: Article
 LANGUAGE: English
 ENTRY DATE: Entered STN: 14 Aug 1996
 Last Updated on STN: 14 Aug 1996
 AB Human immunodeficiency virus-type 1 (**HIV-1**) entry requires fusion cofactors on the CD4+ target cell. Fusin, a heterotrimeric GTP-binding protein (G protein)-coupled receptor, serves as a cofactor for T cell line-tropic isolates. The chemokines RANTES, MIP-1-alpha, and MIP-1-beta, which suppress infection by **macrophage-tropic** isolates, selectively inhibited cell fusion mediated by the corresponding envelope glycoproteins (Envs). Recombinant **CC CCR5**, a G protein-coupled receptor for these chemokines, rendered CD4-expressing nonhuman cells fusion-competent preferentially with macrophage-tropic Envs. **CC CCR5** messenger RNA was detected selectively in cell types susceptible to **macrophage-tropic** isolates. **CC CCR5** is thus a fusion cofactor for **macrophage-tropic HIV-1** strains.

=> D L11 IBIB TI 1-40

L11 ANSWER 1 OF 42 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2005:1234536 CAPLUS
 DOCUMENT NUMBER: 144:21651
 TITLE: Preferential Targeting of CD4-**CCR5** Complexes with Bifunctional **Inhibitors**: A Novel Approach to Block **HIV-1** Infection
 AUTHOR(S): Mack, Matthias; Pfisteringer, Jochen; Haas, Juergen; Nelson, Peter J.; Kufer, Peter; Riethmueller, Gert; Schloendorff, Detlef
 CORPORATE SOURCE: Klinikum, University of Regensburg, Regensburg, Germany
 SOURCE: Journal of Immunology (2005), 175(11), 7586-7593
 CODEN: JOIMA3; ISSN: 0022-1767
 PUBLISHER: American Association of Immunologists
 DOCUMENT TYPE: Journal
 LANGUAGE: English

TI Preferential Targeting of CD4-CCR5 Complexes with Bifunctional
Inhibitors: A Novel Approach to Block HIV-1 Infection
REFERENCE COUNT: 43 THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 2 OF 42 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:1165006 CAPLUS
DOCUMENT NUMBER: 144:112
TITLE: **HIV chemokine receptor inhibitors**
as novel anti-HIV drugs
AUTHOR(S): Princen, Katrien; Schols, Dominique
CORPORATE SOURCE: Laboratory of Virology and Chemotherapy, Rega
Institute for Medical Research, University of Leuven,
Louvain, B-3000, Belg.
SOURCE: Cytokine & Growth Factor Reviews (2005), 16(6),
659-677
CODEN: CGFRFB; ISSN: 1359-6101
PUBLISHER: Elsevier B.V.
DOCUMENT TYPE: Journal; General Review
LANGUAGE: English
TI **HIV chemokine receptor inhibitors** as novel anti-
HIV drugs
REFERENCE COUNT: 154 THERE ARE 154 CITED REFERENCES AVAILABLE FOR
THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L11 ANSWER 3 OF 42 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:1078803 CAPLUS
DOCUMENT NUMBER: 143:324635
TITLE: **HIV-1 gp120-induced TNF- α production**
by primary human macrophages is mediated by
phosphatidylinositol-3 (PI-3) kinase and
mitogen-activated protein (MAP) kinase pathways
AUTHOR(S): Lee, Chuhee; Tomkowicz, Brian; Freedman, Bruce D.;
Collman, Ronald G.
CORPORATE SOURCE: Department of Medicine, University of Pennsylvania
School of Medicine, Philadelphia, USA
SOURCE: Journal of Leukocyte Biology (2005), 78(4), 1016-1023
CODEN: JLBIE7; ISSN: 0741-5400
PUBLISHER: Federation of American Societies for Experimental
Biology
DOCUMENT TYPE: Journal
LANGUAGE: English
TI **HIV-1 gp120-induced TNF- α production by primary human**
macrophages is mediated by phosphatidylinositol-3 (PI-3) kinase and
mitogen-activated protein (MAP) kinase pathways
REFERENCE COUNT: 62 THERE ARE 62 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 4 OF 42 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:17421 CAPLUS
DOCUMENT NUMBER: 142:132495
TITLE: Pathogenesis of **macrophage tropic**
HIV-1
AUTHOR(S): Gorry, Paul R.; Churchill, Melissa; Crowe, Suzanne M.;
Cunningham, Anthony L.; Gabuzda, Dana
CORPORATE SOURCE: Macfarlane Burnet Institute for Medical Research and
Public Health, Melbourne, Australia
SOURCE: Current HIV Research (2005), 3(1), 53-60
CODEN: CHRUBF; ISSN: 1570-162X
PUBLISHER: Bentham Science Publishers Ltd.
DOCUMENT TYPE: Journal; General Review
LANGUAGE: English
TI Pathogenesis of **macrophage tropic HIV-1**
REFERENCE COUNT: 138 THERE ARE 138 CITED REFERENCES AVAILABLE FOR
THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L11 ANSWER 5 OF 42 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:743311 CAPLUS
DOCUMENT NUMBER: 141:253793
TITLE: Inhibition of human immunodeficiency virus type 1 replication by Z-100, an immunomodulator extracted from human-type tubercle bacilli, in macrophages
AUTHOR(S): Emori, Yutaka; Ikeda, Tamako; Ohashi, Takashi; Masuda, Takao; Kurimoto, Tadashi; Takei, Mineo; Kannagi, Mari
CORPORATE SOURCE: Department of Immunotherapeutics, Graduate School, Tokyo Medical and Dental University, Tokyo, 113-8519, Japan
SOURCE: Journal of General Virology (2004), 85(9), 2603-2613
CODEN: JGVIAY; ISSN: 0022-1317
PUBLISHER: Society for General Microbiology
DOCUMENT TYPE: Journal
LANGUAGE: English
TI Inhibition of human immunodeficiency virus type 1 replication by Z-100, an immunomodulator extracted from human-type tubercle bacilli, in macrophages
REFERENCE COUNT: 58 THERE ARE 58 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 6 OF 42 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:517115 CAPLUS
DOCUMENT NUMBER: 141:122212
TITLE: Biological analysis of human immunodeficiency virus type 1 R5 envelopes amplified from brain and lymph node tissues of AIDS patients with neuropathology reveals two distinct tropism phenotypes and identifies envelopes in the brain that confer an enhanced tropism and fusigenicity for macrophages
AUTHOR(S): Peters, Paul J.; Bhattacharya, Jayanta; Hibbitts, Samantha; Dittmar, Matthias T.; Simmons, Graham; Bell, Jeanne; Simmonds, Peter; Clapham, Paul R.
CORPORATE SOURCE: Program in Molecular Medicine and Department of Molecular Genetics and Microbiology, University of Massachusetts Medical School, Worcester, MA, 01605, USA
SOURCE: Journal of Virology (2004), 78(13), 6915-6926
CODEN: JOVIAM; ISSN: 0022-538X
PUBLISHER: American Society for Microbiology
DOCUMENT TYPE: Journal
LANGUAGE: English
TI Biological analysis of human immunodeficiency virus type 1 R5 envelopes amplified from brain and lymph node tissues of AIDS patients with neuropathology reveals two distinct tropism phenotypes and identifies envelopes in the brain that confer an enhanced tropism and fusigenicity for macrophages
REFERENCE COUNT: 53 THERE ARE 53 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 7 OF 42 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:375260 CAPLUS
DOCUMENT NUMBER: 140:385380
TITLE: HIV co-receptors as targets for antiviral therapy
AUTHOR(S): Schols, Dominique
CORPORATE SOURCE: Rega Institute for Medical Research, Katholieke Universiteit Leuven, Louvain, B-3000, Belg.
SOURCE: Current Topics in Medicinal Chemistry (Sharjah, United Arab Emirates) (2004), 4(9), 883-893
CODEN: CTMCCL; ISSN: 1568-0266
PUBLISHER: Bentham Science Publishers Ltd.
DOCUMENT TYPE: Journal; General Review
LANGUAGE: English
TI HIV co-receptors as targets for antiviral therapy
REFERENCE COUNT: 56 THERE ARE 56 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 8 OF 42 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:543762 CAPLUS

DOCUMENT NUMBER: 139:99536
TITLE: Chemokine receptors: their roles in the pathogenesis of human immunodeficiency virus (HIV) and resistance to HIV infection
AUTHOR(S): Us, Durdal
CORPORATE SOURCE: Tip Fakultesi, Mikrobiyoloji ve Klinik Mikrobiyoloji Anabilim Dalı, Hacettepe Universitesi, Ankara, Turk.
SOURCE: Mikrobiyoloji Bulteni (2003), 37(1), 75-87
CODEN: MIBUBI; ISSN: 0374-9096
PUBLISHER: Ankara Mikrobiyoloji Dernegi
DOCUMENT TYPE: Journal; General Review
LANGUAGE: Turkish
TI Chemokine receptors: their roles in the pathogenesis of human immunodeficiency virus (HIV) and resistance to HIV infection

L11 ANSWER 9 OF 42 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:891153 CAPLUS
DOCUMENT NUMBER: 137:362581
TITLE: Impact of NNRTI compared to PI-based highly active antiretroviral therapy on CCR5 receptor expression, β -chemokines and IL-16 secretion in HIV-1 infection
AUTHOR(S): Burton, C. T.; Hardy, G. A. D.; Sullivan, A. K.; Nelson, M. R.; Gazzard, B.; Gotch, F. M.; Imami, N.
CORPORATE SOURCE: Department of Immunology, Imperial College of Science, Technology and Medicine, London, UK
SOURCE: Clinical and Experimental Immunology (2002), 130(2), 286-292
CODEN: CEXIAL; ISSN: 0009-9104
PUBLISHER: Blackwell Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
TI Impact of NNRTI compared to PI-based highly active antiretroviral therapy on CCR5 receptor expression, β -chemokines and IL-16 secretion in HIV-1 infection
REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 10 OF 42 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:651636 CAPLUS
DOCUMENT NUMBER: 137:215552
TITLE: CCR5 and CXCR4 expression after highly active antiretroviral therapy (HAART)
AUTHOR(S): Smith, Kimberly Y.; Kumar, Sampath; Pulvirenti, Joseph J.; Ganesin, Mary Ann; Kessler, Harold A.; Landay, Alan
CORPORATE SOURCE: Rush Presbyterian St. Lukes' Medical Center, Chicago, IL, USA
SOURCE: JAIDS, Journal of Acquired Immune Deficiency Syndromes (2002), 30(4), 458-460
CODEN: JJASFJ
PUBLISHER: Lippincott Williams & Wilkins
DOCUMENT TYPE: Journal
LANGUAGE: English
TI CCR5 and CXCR4 expression after highly active antiretroviral therapy (HAART)
REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 11 OF 42 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2001:799319 CAPLUS
DOCUMENT NUMBER: 136:144573
TITLE: A simple screening system for anti-HIV drugs: syncytium formation assay using T-cell line tropic and macrophage tropic HIV env expressing cell lines-establishment and validation
AUTHOR(S): Chiba, Harumi; Asanuma, Satoshi; Okamoto, Megumi;

Inokoshi, Junji; Tanaka, Haruo; Fujita, Kazunobu;
 Omura, Satoshi
 CORPORATE SOURCE: School of Pharmaceutical Sciences, Kitasato
 University, Tokyo, 108-8641, Japan
 SOURCE: Journal of Antibiotics (2001), 54(10), 818-826
 CODEN: JANTAJ; ISSN: 0021-8820
 PUBLISHER: Japan Antibiotics Research Association
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 TI A simple screening system for anti-HIV drugs: syncytium
 formation assay using T-cell line tropic and **macrophage**
tropic HIV env expressing cell lines-establishment and
 validation
 REFERENCE COUNT: 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 12 OF 42 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2001:790088 CAPLUS
 DOCUMENT NUMBER: 136:95451
 TITLE: Inhibition of **HIV** infection by CXCR4 and
CCR5 chemokine receptor antagonists
 AUTHOR(S): De Clercq, Erik; Schols, Dominique
 CORPORATE SOURCE: Rega Institute for Medical Research, Katholieke
 Universiteit Leuven, Louvain, Belg.
 SOURCE: Antiviral Chemistry & Chemotherapy (2001), 12(Suppl.
 1), 19-31
 CODEN: ACCHEH; ISSN: 0956-3202
 PUBLISHER: International Medical Press
 DOCUMENT TYPE: Journal; General Review
 LANGUAGE: English
 TI Inhibition of **HIV** infection by CXCR4 and **CCR5**
 chemokine receptor antagonists
 REFERENCE COUNT: 101 THERE ARE 101 CITED REFERENCES AVAILABLE FOR
 THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

L11 ANSWER 13 OF 42 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2001:783645 CAPLUS
 DOCUMENT NUMBER: 136:68559
 TITLE: Human mast cell progenitors can be infected by
 macrophagetropic human immunodeficiency virus type 1
 and retain virus with maturation in vitro
 AUTHOR(S): Bannert, Norbert; Farzan, Michael; Friend, Daniel S.;
 Ochi, Hiroshi; Price, Kursteen S.; Sodroski, Joseph;
 Boyce, Joshua A.
 CORPORATE SOURCE: Department of Cancer Immunology and AIDS, Departments
 of Pathology, Dana-Farber Cancer Institute, Harvard
 Medical School, Boston, MA, USA
 SOURCE: Journal of Virology (2001), 75(22), 10808-10814
 CODEN: JOVIAM; ISSN: 0022-538X
 PUBLISHER: American Society for Microbiology
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 TI Human mast cell progenitors can be infected by macrophagetropic human
 immunodeficiency virus type 1 and retain virus with maturation in vitro
 REFERENCE COUNT: 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 14 OF 42 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2001:695180 CAPLUS
 DOCUMENT NUMBER: 135:370508
 TITLE: Synergistic induction of apoptosis in primary CD4+ T
 cells by **macrophage-tropic**
HIV-1 and TGF- β 1
 AUTHOR(S): Wang, Jinhai; Guan, Ennan; Roderiquez, Gregory;
 Norcross, Michael A.
 CORPORATE SOURCE: Laboratory of Gene Regulation, Division of Therapeutic
 Proteins, Center for Biologics Evaluation and
 Research, Food and Drug Administration, National

SOURCE: Institutes of Health, Bethesda, MD, 20892, USA
Journal of Immunology (2001), 167(6), 3360-3366
CODEN: JOIMA3; ISSN: 0022-1767
PUBLISHER: American Association of Immunologists
DOCUMENT TYPE: Journal
LANGUAGE: English
TI Synergistic induction of apoptosis in primary CD4+ T cells by
macrophage-tropic HIV-1 and TGF- β 1
REFERENCE COUNT: 71 THERE ARE 71 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 15 OF 42 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2001:694727 CAPLUS
DOCUMENT NUMBER: 136:31320
TITLE: Novel low molecular weight spirodiketopiperazine
derivatives potently inhibit R5 **HIV-1**
infection through their antagonistic effects on
CCR5
AUTHOR(S): Maeda, Kenji; Yoshimura, Kazuhisa; Shibayama, Shiro;
Habashita, Hiromu; Tada, Hideaki; Sagawa, Kenji;
Miyakawa, Toshikazu; Aoki, Manabu; Fukushima,
Daikichi; Mitsuya, Hiroaki
CORPORATE SOURCE: Department of Internal Medicine II, Kumamoto
University School of Medicine, Kumamoto, 860-0811,
Japan
SOURCE: Journal of Biological Chemistry (2001), 276(37),
35194-35200
CODEN: JBCHA3; ISSN: 0021-9258
PUBLISHER: American Society for Biochemistry and Molecular
Biology
DOCUMENT TYPE: Journal
LANGUAGE: English
TI Novel low molecular weight spirodiketopiperazine derivatives potently
inhibit R5 **HIV-1** infection through their antagonistic effects on
CCR5
REFERENCE COUNT: 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 16 OF 42 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2001:499783 CAPLUS
DOCUMENT NUMBER: 135:103329
TITLE: Methods of identifying G protein-coupled receptors
associated with the uptake of macrophage-trophic
HIV, and their use in diagnosis and treatment
of AIDS
INVENTOR(S): Littman, Dan R.; Deng, Hongkui; Ellmeier, Wilfried;
Landau, Nathaniel R.; Liu, Rong
PATENT ASSIGNEE(S): The Aaron Diamond Aids Research Center, USA; New York
University
SOURCE: U.S., 37 pp., Cont.-in-part of U.S. Ser. No. 858,660,
abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|-------------|
| ----- | ---- | ----- | ----- | ----- |
| US 6258527 | B1 | 20010710 | US 1997-861105 | 19970521 |
| US 2003096221 | A1 | 20030522 | US 2000-734221 | 20001211 |
| PRIORITY APPLN. INFO.: | | | US 1996-17157P | P 19960520 |
| | | | US 1996-20043P | P 19960619 |
| | | | US 1997-858660 | B2 19970519 |
| | | | US 1997-861105 | A1 19970521 |

TI Methods of identifying G protein-coupled receptors associated with the
uptake of macrophage-trophic **HIV**, and their use in diagnosis and
treatment of AIDS
REFERENCE COUNT: 57 THERE ARE 57 CITED REFERENCES AVAILABLE FOR THIS

L11 ANSWER 17 OF 42 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2001:297776 CAPLUS

DOCUMENT NUMBER: 135:45032

TITLE: The LD78 β isoform of MIP-1 α is the most potent CC-chemokine in inhibiting **CCR5**-dependent human immunodeficiency virus type 1 replication in human macrophages

AUTHOR(S): Aquaro, Stefano; Menten, Patricia; Struyf, Sofie; Proost, Paul; Van Damme, Jo; De Clercq, Erik; Schols, Dominique

CORPORATE SOURCE: Laboratory of Experimental Chemotherapy, Department of Microbiology and Immunology, Rega Institute for Medical Research, Katholieke Universiteit Leuven, Louvain, Belg.

SOURCE: Journal of Virology (2001), 75(9), 4402-4406

CODEN: JOVIAM; ISSN: 0022-538X

PUBLISHER: American Society for Microbiology

DOCUMENT TYPE: Journal

LANGUAGE: English

TI The LD78 β isoform of MIP-1 α is the most potent CC-chemokine in inhibiting **CCR5**-dependent human immunodeficiency virus type 1 replication in human macrophages

REFERENCE COUNT: 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 18 OF 42 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2001:64567 CAPLUS

DOCUMENT NUMBER: 134:260925

TITLE: Rapid and simple phenotypic assay for drug susceptibility of human immunodeficiency virus type 1 using **CCR5**-expressing HeLa/CD4+ cell clone 1-10 (MAGIC-5)

AUTHOR(S): Hachiya, Atsuko; Aizawa-Matsuoka, Saori; Tanaka, Mari; Takahashi, Yukiko; Ida, Setsuko; Gatanaga, Hiroyuki; Hirabayashi, Yoshihiro; Kojima, Asato; Tatsumi, Masashi; Oka, Shinichi

CORPORATE SOURCE: National Institute of Infectious Diseases, International Medical Center of Japan, Tokyo, Japan

SOURCE: Antimicrobial Agents and Chemotherapy (2001), 45(2), 495-501

CODEN: AMACCQ; ISSN: 0066-4804

PUBLISHER: American Society for Microbiology

DOCUMENT TYPE: Journal

LANGUAGE: English

TI Rapid and simple phenotypic assay for drug susceptibility of human immunodeficiency virus type 1 using **CCR5**-expressing HeLa/CD4+ cell clone 1-10 (MAGIC-5)

REFERENCE COUNT: 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 19 OF 42 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2000:627558 CAPLUS

DOCUMENT NUMBER: 133:295141

TITLE: Cleavage by CD26/dipeptidyl peptidase IV converts the chemokine LD78 β into a most efficient monocyte attractant and CCR1 agonist

AUTHOR(S): Proost, Paul; Menten, Patricia; Struyf, Sofie;

Schutyser, Evemie; De Meester, Ingrid; Van Damme, Jo

CORPORATE SOURCE: Laboratory of Molecular Immunology, Rega Institute for Medical Research, University of Leuven, Louvain, B-3000, Belg.

SOURCE: Blood (2000), 96(5), 1674-1680

CODEN: BLOOAW; ISSN: 0006-4971

PUBLISHER: American Society of Hematology

DOCUMENT TYPE: Journal

LANGUAGE: English

TI Cleavage by CD26/dipeptidyl peptidase IV converts the chemokine LD78 β

into a most efficient monocyte attractant and CCR1 agonist
REFERENCE COUNT: 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 20 OF 42 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2000:412535 CAPLUS
DOCUMENT NUMBER: 133:129555
TITLE: Oral N-acetyl-cysteine increases the production of
anti-HIV chemokines in peripheral blood
mononuclear cells
AUTHOR(S): Cavallini, Lucia; Alexandre, Adolfo
CORPORATE SOURCE: Department of Biological Chemistry, C.N.R. Centro di
Studio delle Biomembrane, University of Padova, Padua,
Italy
SOURCE: Life Sciences (2000), 67(2), 147-154
CODEN: LIFSAK; ISSN: 0024-3205
PUBLISHER: Elsevier Science Inc.
DOCUMENT TYPE: Journal
LANGUAGE: English
TI Oral N-acetyl-cysteine increases the production of anti-HIV
chemokines in peripheral blood mononuclear cells
REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 21 OF 42 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2000:39264 CAPLUS
DOCUMENT NUMBER: 132:317484
TITLE: The emerging role of fusion **inhibitors** in
HIV infection
AUTHOR(S): De Clercq, Erik
CORPORATE SOURCE: Rega Institute for Medical Research, Katholieke
Universiteit Leuven, Louvain, Belg.
SOURCE: Drugs in R&D (1999), 2(5), 321-331
CODEN: DRDDFD; ISSN: 1174-5886
PUBLISHER: Adis International Ltd.
DOCUMENT TYPE: Journal; General Review
LANGUAGE: English
TI The emerging role of fusion **inhibitors** in HIV
infection
REFERENCE COUNT: 47 THERE ARE 47 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 22 OF 42 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1999:712256 CAPLUS
DOCUMENT NUMBER: 132:221212
TITLE: Antiviral chemokines: intracellular life of
recombinant C-C chemokine RANTES
AUTHOR(S): Owais, Mohammad; Arya, Suresh K.
CORPORATE SOURCE: Basic Research Laboratory, National Cancer Institute,
National Institutes of Health, Bethesda, MD, 20892,
USA
SOURCE: Journal of Human Virology (1999), 2(5), 270-282
CODEN: JHVIFC; ISSN: 1090-9508
PUBLISHER: Lippincott Williams & Wilkins
DOCUMENT TYPE: Journal
LANGUAGE: English
TI Antiviral chemokines: intracellular life of recombinant C-C chemokine
RANTES
REFERENCE COUNT: 56 THERE ARE 56 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 23 OF 42 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1999:598858 CAPLUS
DOCUMENT NUMBER: 131:320942
TITLE: Lymphotropic virions affect chemokine
receptor-mediated neural signaling and apoptosis:
implications for human immunodeficiency virus type
1-associated dementia
AUTHOR(S): Zheng, Jialin; Ghorpade, Anuja; Niemann, Douglas;

Cotter, Robin L.; Thylin, Michael R.; Epstein, Leon;
Swartz, Jennifer M.; Shepard, Robin B.; Liu, Xiaojuan;
Nukuna, Adeline; Gendelman, Howard E.
CORPORATE SOURCE: Center for Neurovirology and Neurodegenerative
Disorders, Departments of Pathology and Microbiology,
University of Nebraska Medical Center, Omaha, NE,
68198-5215, USA
SOURCE: Journal of Virology (1999), 73(10), 8256-8267
CODEN: JOVIAM; ISSN: 0022-538X
PUBLISHER: American Society for Microbiology
DOCUMENT TYPE: Journal
LANGUAGE: English
TI Lymphotropic virions affect chemokine receptor-mediated neural signaling
and apoptosis: implications for human immunodeficiency virus type
1-associated dementia
REFERENCE COUNT: 74 THERE ARE 74 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 24 OF 42 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1999:536212 CAPLUS
DOCUMENT NUMBER: 131:285248
TITLE: Role of CXCR4 in cell-cell fusion and infection of
monocyte-derived macrophages by primary human
immunodeficiency virus type 1 (HIV-1)
strains: two distinct mechanisms of HIV-1
dual tropism
AUTHOR(S): Yi, Yanjie; Isaacs, Stuart N.; Williams, Darlisha A.;
Frank, Ian; Schols, Dominique; De Clercq, Erik;
Kolson, Dennis L.; Collman, Ronald G.
CORPORATE SOURCE: Divisions of Pulmonary and Critical Care, University
of Pennsylvania School of Medicine, Philadelphia, PA,
19104-6060, USA
SOURCE: Journal of Virology (1999), 73(9), 7117-7125
CODEN: JOVIAM; ISSN: 0022-538X
PUBLISHER: American Society for Microbiology
DOCUMENT TYPE: Journal
LANGUAGE: English
TI Role of CXCR4 in cell-cell fusion and infection of monocyte-derived
macrophages by primary human immunodeficiency virus type 1 (HIV
-1) strains: two distinct mechanisms of HIV-1 dual tropism
REFERENCE COUNT: 52 THERE ARE 52 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 25 OF 42 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1999:107831 CAPLUS
DOCUMENT NUMBER: 130:280739
TITLE: Extracellular HIV-1 Tat protein up-regulates
the expression of surface CXC-chemokine receptor 4 in
resting CD4+ T cells
AUTHOR(S): Secchiero, Paola; Zella, Davide; Capitani, Silvano;
Gallo, Robert C.; Zauli, Giorgio
CORPORATE SOURCE: Institute of Human Virology, University of Maryland
Biotechnology Institute, Baltimore, MD, 21201, USA
SOURCE: Journal of Immunology (1999), 162(4), 2427-2431
CODEN: JOIMA3; ISSN: 0022-1767
PUBLISHER: American Association of Immunologists
DOCUMENT TYPE: Journal
LANGUAGE: English
TI Extracellular HIV-1 Tat protein up-regulates the expression of
surface CXC-chemokine receptor 4 in resting CD4+ T cells
REFERENCE COUNT: 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 26 OF 42 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1998:231440 CAPLUS
DOCUMENT NUMBER: 129:40013
TITLE: Natural truncation of RANTES abolishes signaling
through the CC chemokine receptors CCR1 and CCR3,
impairs its chemotactic potency and generates a CC

chemokine **inhibitor**

AUTHOR(S): Struyf, Sofie; De Meester, Ingrid; Scharpe, Simon; Lenaerts, Jean Pierre; Menten, Patricia; Wang, Ji Ming; Proost, Paul; Van Damme, Jo
CORPORATE SOURCE: Rega Institute Medical Research, Laboratory Molecular Immunology, University Leuven, Louvain, B-3000, Belg.
SOURCE: European Journal of Immunology (1998), 28(4), 1262-1271
CODEN: EJIMAF; ISSN: 0014-2980
PUBLISHER: Wiley-VCH Verlag GmbH
DOCUMENT TYPE: Journal
LANGUAGE: English
TI Natural truncation of RANTES abolishes signaling through the CC chemokine receptors CCR1 and CCR3, impairs its chemotactic potency and generates a CC chemokine **inhibitor**

L11 ANSWER 27 OF 42 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1997:307135 CAPLUS
DOCUMENT NUMBER: 127:16407
TITLE: **CCR5** levels and expression pattern correlate with infectability by **macrophage-tropic HIV-1**, in vitro

AUTHOR(S): Wu, Lijun; Paxton, William A.; Kassam, Nasim; Ruffing, Nancy; Rottman, James B.; Sullivan, Nancy; Choe, Hyeryun; Sodroski, Joseph; Newman, Walter; et al.
CORPORATE SOURCE: Leuko Site, Inc., Cambridge, MA, 02142, USA
SOURCE: Journal of Experimental Medicine (1997), 185(9), 1681-1691
CODEN: JEMEAV; ISSN: 0022-1007
PUBLISHER: Rockefeller University Press
DOCUMENT TYPE: Journal
LANGUAGE: English

TI **CCR5** levels and expression pattern correlate with infectability by **macrophage-tropic HIV-1**, in vitro

REFERENCE COUNT: 70 THERE ARE 70 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 28 OF 42 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

ACCESSION NUMBER: 2006:104871 BIOSIS
DOCUMENT NUMBER: PREV200600106717
TITLE: Preferential targeting of CD4-**CCR5** complexes with bifunctional **inhibitors**: A novel approach to block **HIV-1** infection.

AUTHOR(S): Mack, Matthias [Reprint Author]; Pfistering, Jochen; Haas, Juergen; Nelson, Peter J.; Kufer, Peter; Riethmueller, Gert; Schloendorff, Detlef
CORPORATE SOURCE: Univ Regensburg, Dept Internal Med, Klinikum, D-93042 Regensburg, Germany
matthias.mack@klinik.uni-regensburg.de
SOURCE: Journal of Immunology, (DEC 1 2005) Vol. 175, No. 11, pp. 7586-7593.
CODEN: JOIMA3. ISSN: 0022-1767.

DOCUMENT TYPE: Article

LANGUAGE: English

ENTRY DATE: Entered STN: 8 Feb 2006

Last Updated on STN: 8 Feb 2006

TI Preferential targeting of CD4-**CCR5** complexes with bifunctional **inhibitors**: A novel approach to block **HIV-1** infection.

L11 ANSWER 29 OF 42 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

ACCESSION NUMBER: 2006:62459 BIOSIS
DOCUMENT NUMBER: PREV200600050043
TITLE: **HIV** chemokine receptor **inhibitors** as novel anti-**HIV** drugs.

AUTHOR(S): Princen, Katrien; Schols, Dominique [Reprint Author]
CORPORATE SOURCE: Katholieke Univ Leuven, Rega Inst Med Res, Lab Virol and Chemotherapy, Minderbroedersstr 10, B-3000 Louvain, Belgium

katrien.princen@rega.kuleuven.ac.be;
dominique.schols@rega.kuleuven.ac.be

SOURCE: Cytokine & Growth Factor Reviews, (DEC 2005) Vol. 16, No. 6, pp. 659-677.
ISSN: 1359-6101.

DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 4 Jan 2006
Last Updated on STN: 4 Jan 2006

TI **HIV** chemokine receptor **inhibitors** as novel anti-**HIV** drugs.

L11 ANSWER 30 OF 42 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

ACCESSION NUMBER: 2006:8569 BIOSIS

DOCUMENT NUMBER: PREV200600008066

TITLE: **HIV**-1 gp120-induced TNF-alpha production by primary human macrophages is mediated by phosphatidylinositol-3 (PI-3) kinase and mitogen-activated protein (MAP) kinase pathways.

AUTHOR(S): Lee, Chuhee; Tomkowicz, Brian; Freedman, Bruce D.; Collman, Ronald G. [Reprint Author]

CORPORATE SOURCE: Univ Penn, Sch Med, Dept Med, 522 Johnson Pavil, 36th and Hamilton Walk, Philadelphia, PA 19104 USA
collmanr@mail.med.upenn.edu

SOURCE: Journal of Leukocyte Biology, (OCT 2005) Vol. 78, No. 4, pp. 1016-1023.

CODEN: JLBIE7. ISSN: 0741-5400.

DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 14 Dec 2005
Last Updated on STN: 14 Dec 2005

TI **HIV**-1 gp120-induced TNF-alpha production by primary human macrophages is mediated by phosphatidylinositol-3 (PI-3) kinase and mitogen-activated protein (MAP) kinase pathways.

L11 ANSWER 31 OF 42 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

ACCESSION NUMBER: 2004:441397 BIOSIS

DOCUMENT NUMBER: PREV200400446372

TITLE: Inhibition of human immunodeficiency virus type 1 replication by Z-100, an immunomodulator extracted from human-type tubercle bacilli, in macrophages.

AUTHOR(S): Emori, Yutaka; Ikeda, Tamako; Ohashi, Takashi; Masuda, Takao; Kurimoto, Tadashi; Takei, Mineo; Kannagi, Mari [Reprint Author]

CORPORATE SOURCE: Grad SchDept ImmunotherapeutBunkyo Ku, Tokyo Med and Dent Univ, 1-5-45 Yushima, Tokyo, 1138519, Japan
kann.impt@tmd.ac.jp

SOURCE: Journal of General Virology, (September 2004) Vol. 85, No. Part 9, pp. 2603-2613. print.
ISSN: 0022-1317 (ISSN print).

DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 17 Nov 2004
Last Updated on STN: 17 Nov 2004

TI Inhibition of human immunodeficiency virus type 1 replication by Z-100, an immunomodulator extracted from human-type tubercle bacilli, in macrophages.

L11 ANSWER 32 OF 42 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

ACCESSION NUMBER: 2003:333188 BIOSIS

DOCUMENT NUMBER: PREV200300333188

TITLE: Chemokine receptors: Their roles in the pathogenesis of human immunodeficiency virus (**HIV**) and resistance to **HIV** infection.

Original Title: Kemokin reseptorleri: Insan immun yetmezlik virusu (**HIV**) patogenezinde ve **HIV**

enfeksiyonuna direncteki rolleri..

AUTHOR(S): Us, Durdal [Reprint Author]
CORPORATE SOURCE: Tip Fakultesi, Mikrobiyoloji ve Klinik Mikrobiyoloji
Anabilim Dalı, Hacettepe Üniversitesi, Ankara, Turkey
SOURCE: Mikrobiyoloji Bulteni, (January 2003) Vol. 37, No. 1, pp.
75-87. print.
ISSN: 0374-9096 (ISSN print).
DOCUMENT TYPE: Article
General Review; (Literature Review)
LANGUAGE: Turkish
ENTRY DATE: Entered STN: 16 Jul 2003
Last Updated on STN: 16 Jul 2003

TI Chemokine receptors: Their roles in the pathogenesis of human
immunodeficiency virus (HIV) and resistance to HIV
infection.
Original Title: Kemokin reseptorleri: İnsan immun yetmezlik virusu (
HIV) patogeneğinde ve HIV enfeksiyonuna direncteki
rolleri..

L11 ANSWER 33 OF 42 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN

ACCESSION NUMBER: 2002:631541 BIOSIS
DOCUMENT NUMBER: PREV200200631541
TITLE: Impact of NNRTI compared to PI-based highly active
antiretroviral therapy on CCR5 receptor
expression, beta-chemokines and IL-16 secretion in
HIV-1 infection.
AUTHOR(S): Burton, C. T.; Hardy, G. A. D.; Sullivan, A. K.; Nelson, M.
R.; Gazzard, B.; Gotch, F. M.; Imami, N. [Reprint author]
CORPORATE SOURCE: Department of Immunology, Imperial College of Science,
Technology and Medicine, Chelsea and Westminster Hospital,
369 Fulham Road, London, SW10 9NH, UK
n.imami@ic.ac.uk
SOURCE: Clinical and Experimental Immunology, (November, 2002) Vol.
130, No. 2, pp. 286-292. print.
CODEN: CEXIAL. ISSN: 0009-9104.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 12 Dec 2002
Last Updated on STN: 12 Dec 2002

TI Impact of NNRTI compared to PI-based highly active antiretroviral therapy
on CCR5 receptor expression, beta-chemokines and IL-16 secretion
in HIV-1 infection.

L11 ANSWER 34 OF 42 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN

ACCESSION NUMBER: 2002:133834 BIOSIS
DOCUMENT NUMBER: PREV200200133834
TITLE: A simple screening system for anti-HIV drugs:
Syncytium formation assay using T-cell line tropic and
macrophage tropic HIV env
expressing cell lines: Establishment and validation.
AUTHOR(S): Chiba, Harumi; Asanuma, Satoshi; Okamoto, Megumi; Inokoshi,
Junji; Tanaka, Haruo [Reprint author]; Fujita, Kazunobu;
Omura, Satoshi
CORPORATE SOURCE: School of Pharmaceutical Sciences, Kitasato University,
Shirokane, Minato-ku, Tokyo, 108-8641, Japan
tanakah@pharm.kitasato-u.ac.jp
SOURCE: Journal of Antibiotics (Tokyo), (October, 2001) Vol. 54,
No. 10, pp. 818-826. print.
CODEN: JANTAJ. ISSN: 0021-8820.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 6 Feb 2002
Last Updated on STN: 26 Feb 2002

TI A simple screening system for anti-HIV drugs: Syncytium
formation assay using T-cell line tropic and macrophage
tropic HIV env expressing cell lines: Establishment and
validation.

L11 ANSWER 35 OF 42 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN

ACCESSION NUMBER: 2001:500357 BIOSIS
DOCUMENT NUMBER: PREV200100500357
TITLE: Inhibition of **HIV** infection by CXCR4 and
CCR5 chemokine receptor antagonists.
AUTHOR(S): De Clercq, Erik [Reprint author]; Schols, Dominique
CORPORATE SOURCE: Rega Institute for Medical Research, Katholieke
Universiteit Leuven, Leuven, Belgium
erik.declercq@rega.kuleuven.ac.be
SOURCE: Antiviral Chemistry and Chemotherapy, (2001) Vol. 12, No.
Supplement 1, pp. 19-31. print.
CODEN: ACCHEH. ISSN: 0956-3202.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 24 Oct 2001
Last Updated on STN: 23 Feb 2002
TI Inhibition of **HIV** infection by CXCR4 and **CCR5**
chemokine receptor antagonists.

L11 ANSWER 36 OF 42 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN

ACCESSION NUMBER: 2001:479439 BIOSIS
DOCUMENT NUMBER: PREV200100479439
TITLE: Novel low molecular weight spirodiketopiperazine
derivatives potently inhibit R5 **HIV**-1 infection
through their antagonistic effects on **CCR5**.
AUTHOR(S): Maeda, Kenji; Yoshimura, Kazuhisa; Shibayama, Shiro;
Habashita, Hiromu; Tada, Hideaki; Sagawa, Kenji; Miyakawa,
Toshikazu; Aoki, Manabu; Fukushima, Daikichi; Mitsuya,
Hiroaki [Reprint author]
CORPORATE SOURCE: Dept. of Internal Medicine II, Kumamoto University School
of Medicine, 1-1-1 Honjo, Kumamoto, 860-0811, Japan
hmitsuya@helix.nih.gov
SOURCE: Journal of Biological Chemistry, (September 14, 2001) Vol.
276, No. 37, pp. 35194-35200. print.
CODEN: JBCHA3. ISSN: 0021-9258.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 10 Oct 2001
Last Updated on STN: 23 Feb 2002
TI Novel low molecular weight spirodiketopiperazine derivatives potently
inhibit R5 **HIV**-1 infection through their antagonistic effects on
CCR5.

L11 ANSWER 37 OF 42 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN

ACCESSION NUMBER: 2001:96552 BIOSIS
DOCUMENT NUMBER: PREV200100096552
TITLE: Rapid and simple phenotypic assay for drug susceptibility
of human immunodeficiency virus type 1 using **CCR5**
-expressing HeLa/CD4+ cell clone 1-10 (MAGIC-5).
AUTHOR(S): Hachiya, Atsuko; Aizawa-Matsuoka, Saori; Tanaka, Mari;
Takahashi, Yukiko; Ida, Setsuko; Gatanaga, Hiroyuki;
Hirabayashi, Yoshihiro; Kojima, Asato; Tatsumi, Masashi;
Oka, Shinichi [Reprint author]
CORPORATE SOURCE: AIDS Clinical Center, International Medical Center of
Japan, 1-21-1, Toyama, Shinjuku-ku, Tokyo, 162-8655, Japan
oka@imcj.hosp.go.jp
SOURCE: Antimicrobial Agents and Chemotherapy, (February, 2001)
Vol. 45, No. 2, pp. 495-501. print.
CODEN: AMACCQ. ISSN: 0066-4804.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 21 Feb 2001
Last Updated on STN: 15 Feb 2002
TI Rapid and simple phenotypic assay for drug susceptibility of human
immunodeficiency virus type 1 using **CCR5**-expressing HeLa/CD4+

cell clone 1-10 (MAGIC-5).

L11 ANSWER 38 OF 42 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN

ACCESSION NUMBER: 2000:453842 BIOSIS

DOCUMENT NUMBER: PREV200000453842

TITLE: Cleavage by CD26/dipeptidyl peptidase IV converts the
chemokine LD78beta into a most efficient monocyte
attractant and CCR1 agonist.

AUTHOR(S): Proost, Paul [Reprint author]; Menten, Patricia; Struyf,
Sofie; Schutyser, Evemie; De Meester, Ingrid; Van Damme, Jo

CORPORATE SOURCE: Laboratory of Molecular Immunology, Rega Institute for
Medical Research, University of Leuven,
Minderbroedersstraat 10, B-3000, Leuven, Belgium

SOURCE: Blood, (September 1, 2000) Vol. 96, No. 5, pp. 1674-1680.
print.
CODEN: BLOOAW. ISSN: 0006-4971.

DOCUMENT TYPE: Article

LANGUAGE: English

ENTRY DATE: Entered STN: 25 Oct 2000

Last Updated on STN: 10 Jan 2002

TI Cleavage by CD26/dipeptidyl peptidase IV converts the chemokine LD78beta
into a most efficient monocyte attractant and CCR1 agonist.

L11 ANSWER 39 OF 42 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN

ACCESSION NUMBER: 2000:304938 BIOSIS

DOCUMENT NUMBER: PREV200000304938

TITLE: Oral N-acetyl-cysteine increases the production of anti
HIV chemokines in peripheral blood mononuclear
cells.

AUTHOR(S): Cavallini, Lucia; Alexandre, Adolfo [Reprint author]

CORPORATE SOURCE: Dipartimento di Chimica Biologica, University of Padova,
Via G. Colombo 3, 35121, Padova, Italy

SOURCE: Life Sciences, (June 2, 2000) Vol. 67, No. 2, pp. 147-154.
print.
CODEN: LIFSAK. ISSN: 0024-3205.

DOCUMENT TYPE: Article

LANGUAGE: English

ENTRY DATE: Entered STN: 19 Jul 2000

Last Updated on STN: 7 Jan 2002

TI Oral N-acetyl-cysteine increases the production of anti HIV
chemokines in peripheral blood mononuclear cells.

L11 ANSWER 40 OF 42 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN

ACCESSION NUMBER: 1999:470631 BIOSIS

DOCUMENT NUMBER: PREV199900470631

TITLE: Lymphotropic virions affect chemokine receptor-mediated
neural signaling and apoptosis: Implications for human
immunodeficiency virus type 1-associated dementia.

AUTHOR(S): Zheng, Jialin; Ghorpade, Anuja; Niemann, Douglas; Cotter,
Robin L.; Thylin, Michael R.; Epstein, Leon; Swartz,
Jennifer M.; Shepard, Robin B.; Liu, Xiaojuan; Nukuna,
Adeline; Gendelman, Howard E. [Reprint author]

CORPORATE SOURCE: Center for Neurovirology and Neurodegenerative Disorders,
985215 Nebraska Medical Center, Omaha, NB, 68198-5215, USA

SOURCE: Journal of Virology, (Oct., 1999) Vol. 73, No. 10, pp.
8256-8267. print.
CODEN: JOVIAM. ISSN: 0022-538X.

DOCUMENT TYPE: Article

LANGUAGE: English

ENTRY DATE: Entered STN: 9 Nov 1999

Last Updated on STN: 9 Nov 1999

TI Lymphotropic virions affect chemokine receptor-mediated neural signaling
and apoptosis: Implications for human immunodeficiency virus type
1-associated dementia.

=> D L11 IBIB TI 41-42

L11 ANSWER 41 OF 42 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN

ACCESSION NUMBER: 1999:400208 BIOSIS
DOCUMENT NUMBER: PREV199900400208
TITLE: Role of CXCR4 in cell-cell fusion and infection of
monocyte-derived macrophages by primary human
immunodeficiency virus type 1 (**HIV-1**) strains:
Two distinct mechanisms of **HIV-1** dual tropism.
AUTHOR(S): Yi, Yanjie; Isaacs, Stuart N.; Williams, Darlisha A.;
Frank, Ian; Schols, Dominique; De Clercq, Erik; Kolson,
Dennis L.; Collman, Ronald G. [Reprint author]
CORPORATE SOURCE: University of Pennsylvania School of Medicine, 36th and
Hamilton Walk, 522 Johnson Pavilion, Philadelphia, PA,
19104-6060, USA
SOURCE: Journal of Virology, (Sept., 1999) Vol. 73, No. 9, pp.
7117-7125. print.
CODEN: JOVIAM. ISSN: 0022-538X.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 8 Oct 1999
Last Updated on STN: 8 Oct 1999
TI Role of CXCR4 in cell-cell fusion and infection of monocyte-derived
macrophages by primary human immunodeficiency virus type 1 (**HIV**
-1) strains: Two distinct mechanisms of **HIV-1** dual tropism.

L11 ANSWER 42 OF 42 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN

ACCESSION NUMBER: 1997:274517 BIOSIS
DOCUMENT NUMBER: PREV199799566235
TITLE: **CCR5** levels and expression pattern correlates
with infectability by **macrophage-tropic**
HIV-1, in vitro.
AUTHOR(S): Wu, Lijun; Paxton, William A.; Kassam, Nasim; Ruffing,
Nancy; Rottman, James B.; Sullivan, Nancy; Choe, Hyeryun;
Sodroski, Joseph; Newman, Walter; Koup, Richard A.; Mackay,
Charles R. [Reprint author]
CORPORATE SOURCE: LeukoSite Inc., 215 First St., Cambridge, MA 01242, USA
SOURCE: Journal of Experimental Medicine, (1997) Vol. 185, No. 9,
pp. 1681-1691.
CODEN: JEMEAV. ISSN: 0022-1007.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 24 Jun 1997
Last Updated on STN: 24 Jun 1997
TI **CCR5** levels and expression pattern correlates with infectability
by **macrophage-tropic HIV-1**, in vitro.



A service of the National Library of Medicine
and the National Institutes of Health

My NCBI [?] [Sign In] [Register]

All Databases PubMed Nucleotide Protein Genome Structure OMIM PMC Journals Books

Search PubMed for [] Preview Go Clear

☒ Limits Preview/Index **History** Clipboard Details

Limits: Publication Date to 1996/05/19

- Search History will be lost after eight hours of inactivity.
- To combine searches use # before search number, e.g., #2 AND #6.
- Search numbers may not be continuous; all searches are represented.
- Click on query # to add to strategy

About Entrez
NCBI Toolbar

Text Version

Entrez PubMed

Overview
Help | FAQ
Tutorials
New/Noteworthy
E-Utilities

PubMed Services

Journals Database
MeSH Database
Single Citation Matcher
Batch Citation Matcher
Clinical Queries
Special Queries
LinkOut
My NCBI

Related Resources

Order Documents
NLM Mobile
NLM Catalog
NLM Gateway
TOXNET
Consumer Health
Clinical Alerts
ClinicalTrials.gov
PubMed Central

| Search | Most Recent Queries | Time | Result |
|---------------------|--|----------|--------------------|
| #18 | Search RANTES and HIV Limits: Publication Date to 1996/05/19 | 08:03:03 | 9 |
| #17 | Search CC chemokine and HIV Limits: Publication Date to 1996/05/19 | 08:02:56 | 0 |
| #16 | Search CCR5 and HIV Limits: Publication Date to 1996/05/19 | 08:02:49 | 0 |
| #15 | Search CC-CKR5 and HIV Limits: Publication Date to 1996/05/19 | 08:02:31 | 0 |
| #14 | Search CC-CKR5 Field: All Fields, Limits: Publication Date to 1996/05/19 | 08:02:15 | 1 |
| #12 | Search Dengue envelope protein and receptor | 07:04:17 | 12 |
| #11 | Search Dengue envelope protein and macrophage infection and receptor | 07:04:02 | 0 |
| #4 | Search flavivirus and macrophage infection and receptor | 06:37:20 | 12 |
| #1 | Search flavivirus and macrophage infection | 06:32:11 | 92 |

Clear History

Write to the Help Desk

NCBI | NLM | NIH

Department of Health & Human Services

Privacy Statement | Freedom of Information Act | Disclaimer

Feb 24 2006 04:49:50